



(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 22 March 2001 (22.03.2001)

PCT

(10) International Publication Number WO 01/19734 A1

(51) International Patent Classification7: B01D 35/18

C02F 1/02,

- (21) International Application Number: PCT/GB00/03329
- (22) International Filing Date: 30 August 2000 (30.08.2000)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data

9921659.0 V

- 14 September 1999 (14.09.1999) GB
- (71) Applicant (for all designated States except US): IMI CORNELIUS (UK) LIMITED [GB/GB]; Tything Road, Alcester, Warwickshire B49 6EU (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): JOHNSON, Martin, Stanley [GB/GB]; 7 Rupert Kettle Drive, Bishops Itchington, Learnington Spa, Warwickshire CV33 0PU (GB). WIEMER, Klaus [DE/DE]; Holundstrasse 2, D-42799 Leichlingen (DE). WILLIAMS, Graham

[GB/GB]; 96 Saxon Wood Road, Shirley, Solihull, Birmingham B90 4JR (GB).

(74) Agents: SYKES, John, C. et al.; IMI plc, Patents & Licensing Dept., P.O. Box 216, Witton-Birmingham B6 7BA

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,

TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

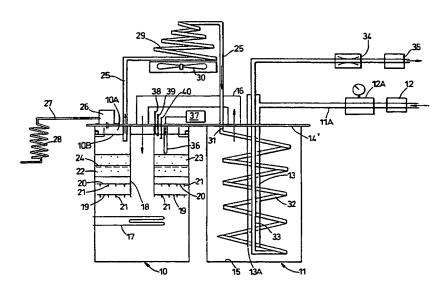
Published:

(GB).

With international search report.

[Continued on next page]

(54) Title: WATER TREATMENT APPARATUS



(57) Abstract: The invention provides an improved means of purifying water which comprises a water treatment apparatus comprising a treatment housing (10, 60) having an inlet (18, 65) for the water to be treated, an outlet (25, 67) for the treated water, a heater (17, 76) within the housing to come into direct contact with the water and a filter (22, 23, 78, 79) between the heater and the outlet, characterised in that means (38, 81) are provided to fill the housing with water up to a maximum level which leaves a headspace (10A, 80A) between the water and the roof (14, 61) of the housing, the entrance to the outlet being below the operating water level (10B, 80).

